

METHODS AND APPARATUS FOR
ELECTRONICALLY MODELING AIRCRAFT
ENGINE HARNESES

ABSTRACT OF THE DISCLOSURE

A modeling system that converts a three-dimensionally defined aircraft engine harness in a two-dimensional electronic model, a process known as unfolding, is described. The modeling system electronically unfolds the three-dimensionally defined harness to create a two-dimensional representation, while simultaneously determining a plurality of design parameters. The drawing and the design parameters are displayed in a format that may be used for inspection purposes and manufacturing purposes. More specifically, the modeling system determines branch angles, wire lengths, and a plurality of angles of the three-dimensionally defined harness.